



DASH NUMBER		TUBE	B	D	G <sub>1</sub>	J <sub>3</sub>	K	M	M <sub>7</sub>
ASSY	*BODY	C.D.	STRAIGHT THREAD	DIA	DIA	FULL			
		NOM	CLASS 2A	DRILL	+0.002 -0.003	THREAD ±.005	+0.015 -0.005	±.03	±.03
1	21	1/8	5/16-24UNF	0.093	0.250	.234	.188	0.77	0.91
2	22	3/16	3/8-24UNF	0.125	0.313	.234	.234	0.83	0.94
3	23	1/4	7/16-20UNF	0.203	0.364	.281	.234	0.89	1.03
4	24	5/16	1/2-20UNF	0.234	0.427	.281	.250	0.95	1.09
5	25	3/8	9/16-18UNF	0.281	0.482	.312	.250	1.05	1.25
6	26	1/2	3/4-16UNF	0.422	0.660	.344	.305	1.25	1.45
7	27	5/8	7/8-14UNF	0.500	0.773	.391	.350	1.42	1.70
8	28	3/4	1-1/16-12UN	0.656	0.945	.469	.350	1.58	1.94
9	29	7/8	1-3/16-12UN	0.718	1.070	.469	.350	1.62	2.00
10	30	1	1-5/16-12UN	0.875	1.195	.469	.415	1.73	2.05
11	31	1-1/4	1-5/8-12UN	1.093	1.507	.469	.415	1.89	2.25
12	32	1-1/2	1-7/8-12UN	1.344	1.756	.469	.485	2.02	2.39
13	33	2	2-1/2-12UN	1.813	2.381	.469	.485	2.45	2.89

## NOTES:

- MATERIAL:** Steel, carbon in accordance with procurement specification.  
Steel, corrosion-resisting in accordance with procurement specification.
- PROTECTIVE COATING:** Cadmium plated in accordance with procurement specification.  
Zinc plated in accordance with procurement specification.  
Phosphate coating in accordance with procurement specification.  
Passivation treatment in accordance with procurement specification.
- DIMENSIONS AND TOLERANCES:** Dimensions and tolerances not shown shall be in accordance with SAE Standard for Flareless Tube Fittings (SAE J514).
- THREADS:** Threads shall be in accordance with Screw-Thread Standards for Federal Services, FED-STD-H28.
- PART NUMBER:** The MS part number consists of the MS number, plus the dash number and (for complete assembly) the applicable MS51825 sleeve style designator.
  - For complete assembly (with nuts and sleeves), cadmium plated, use the MS number, plus the assembly dash number and the sleeve style designator.  
Example: MS51841-1A or MS51841-1B.
  - For body only, cadmium plated, use the MS number and the body dash number.  
Example: MS51841-21.
  - For zinc coating add "Z" and (for complete assembly) the sleeve style designator to the dash number. Example: MS51841-1ZA or MS51841-1ZB or MS51841-21Z.
  - For phosphate coating add "P" and (for complete assembly) the sleeve style designator to the dash number. Example: MS51841-1PA or MS51841-1PB or MS51841-21P.
  - For corrosion-resisting steel add "SS" and (for complete assembly) the sleeve style designator to the dash number. Example: MS51841-1SSA or MS51841-1SSB or MS51841-21SS.
- For design feature purposes, this standard takes precedence over procurement documents referenced herein.
- Reference documents shall be of the issue in effect on date of invitations for bid.
- The illustration is for identification and is not intended to restrict designs or shapes not dimensioned.
- Procure the O-Ring separately and install immediately before installation of the fitting.
- After 9 July 1973, bodies will be used for production only and **SHALL NOT** be stocked for maintenance. Existing stock of bodies should be used until depleted.

①

① Denotes change

P.A. AR Other Cust 99	TITLE TEE, TUBE TO BOSS, BOSS ON BRANCH, O-RING, FLARELESS TYPE, HYDRAULIC	MILITARY STANDARD MS51841
PROCUREMENT SPECIFICATION MIL-F-18866	SUPERSEDES:	SHEET 1 OF 1